CMCC Doc. No. 151X5.695
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SAPC 19059
COPY 1 OF 1

25X1A

To: [redacted] - WRSP(3)

August 26, 1957

From: R-W

Information: Headquarters
WRSP(2)
WRSP(1)

File
A-101

Subject: Reply to Your Field Report of 24 July 1957.

2. A clear plastic dessicant tube and holder would not have the necessary structural strength. The present dessicant holder has been designed so that if it is removed from the mounting tubes the dessicant holder which is spring-loaded can be opened up so that the color of the dessicant can be observed. When the dessicant becomes saturated, its color changes from white to blue.

3. Factory has been notified.

4 and 5. Recommendations have been noted.

7, 8, and 9. Factory has been notified.

~~NO.~~
~~CHANGE IN CLASS. ☐~~
~~DECLASSIFIED~~
~~CHANGED TO: TS S C~~
~~REVIEW DATE: 2011~~
~~HR 70-2~~
~~12/11/81 REVIEWER: 037~~

11. In regard to the procedure for tuning the first local oscillators, a precaution which must be observed is that operation of the crystal in the parallel mode does not inadvertently take place. This can be avoided if, using the HP-608D, a test signal is selected which lies at the edge of a given band. The test signal must lie at the upper edge of the band for the five upper bands and at the lower edge of the band for the four lower bands. (For example, 150.4 mc for band nine.) The local oscillator can then be tuned for maximum agc voltage as described in your report. The reason for doing this is that, if the local oscillator should drop into the parallel mode, then the oscillation, which will be several megacycles high, will cause an output which lies outside the passband; hence, the parallel mode can be avoided.

The second point to observe is that, if the oscillator is adjusted right at the peak, the oscillator can drop out of oscillations. This can be avoided if the tuning is backed away slightly from the peak position. To do this with consistency, the best method is to tune through the peak until the oscillator does drop out, and then to tune back until the oscillator just drops into oscillation again. Due to a hysteresis effect, the oscillator will now be at a stable operating point.

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